SHARP®

MODEL

AR-121E
AR-151E

DIGITAL LASER COPIER

OPERATION MANUAL

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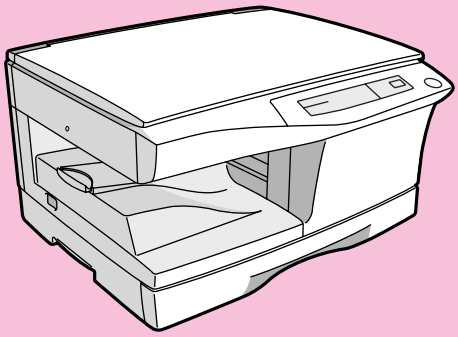


CLASS 1 LASER PRODUCT

LASER KLASSE 1

LUOKAN 1 LASERLAITE

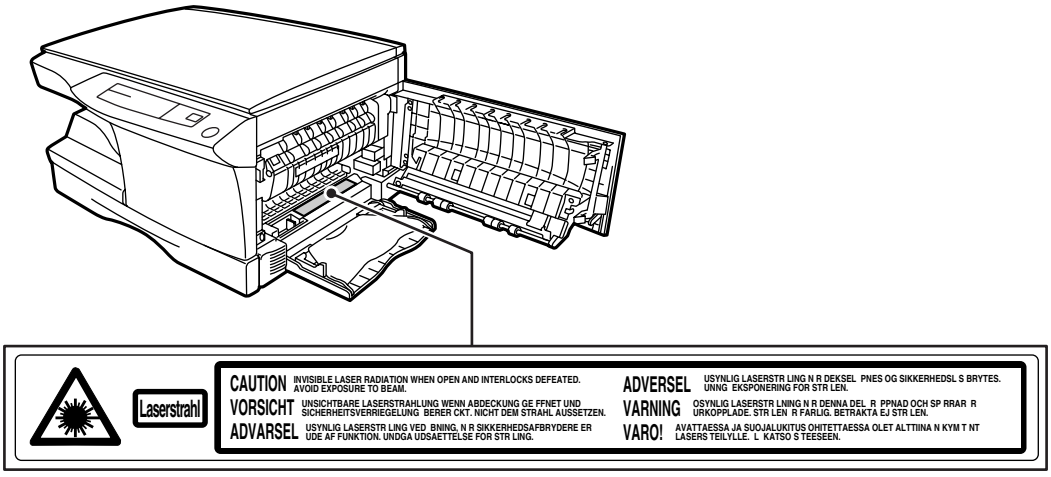
KLASS 1 LASERAPPARAT

VAROITUS!

LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VARNING

OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERATS, KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASERSTRÅLNING, SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.


Laserstrahl
CAUTION INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
VORSICHT UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GE FFNET UND SICHERHEITSVERRIEGELUNG BERER CKT. NICHT DEM STRAHL AUSSETZEN.
ADVARSEL USYNLIG LASERSTR LING VED BNING, N R SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGA UDSAETTELSE FOR STR LING.
ADVERSEL USYNLIG LASERSTR LING N R DEKSEL PNES OG SIKKERHEDSL S BRYTES. UNING EKSPONERING FOR STR LEN.
VARNING OSYNLIG LASERSTR LNING N R DENNA DEL R PPNAD OCH SP RRAR R URKOPPLADE. STR LEN R FARLIG. BETRAKTA EJ STR LEN.
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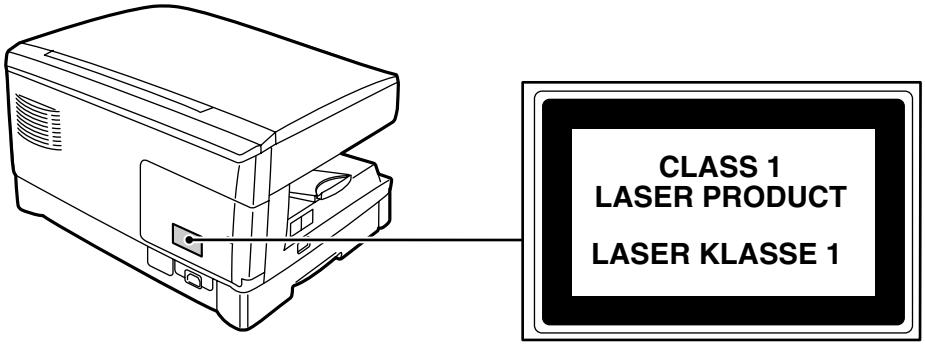

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1 GETTING STARTED

This chapter provides basic information for using the copier.

INTRODUCTION

This copier has been designed to provide intuitive operating ease while requiring a minimum amount of space. To get full use of all copier features, be sure to familiarise yourself with this manual and the copier.
For quick reference during copier use, keep this manual in a handy location.

Conventions used in this manual

In this manual, the following icons are used to provide the user with information pertinent to the use of the copier.

Warning

Warns the user that injury to the user or damage to the copier may result if the contents of the warning are not properly followed.

Caution

Cautions the user that damage to the copier or one of its components may result if the contents of the caution are not properly followed.

Note

Notes provide information relevant to the copier regarding specifications, functions, performance, operation and such, that may be useful to the user.

Indicates a letter displayed in the display.

AB series (metric) and inch series references

When references are made to paper sizes and weights, the inch series values are quoted in brackets.

For example:
Page 33 ---------- 56 to 80 g/m² (15 to 21 lbs.)
A4 (8-1/2" x 11")

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CAUTIONS

Follow the cautions below when using this copier.

Warning

- The fusing area is hot. Exercise care in this area when removing misfed paper.
- Do not look directly at the light source. Doing so may damage your eyes.
- Do not switch the copier rapidly on and off. After turning the copier off, wait 10 to 15 seconds before turning it back on.
- Copier power must be turned off before installing any supplies.

Caution

- Place the copier on a firm, level surface.
- Do not install the copier in a humid or dusty location.
- When the copier is not used for a long time, for example, for consecutive holidays, turn the power switch off and remove the power cord from the outlet.
- When moving the copier, be sure to turn the power switch off and remove the power cord from the outlet.
- Do not cover the copier with a dust cover, cloth or plastic film while the power is on. Doing so may prevent heat radiation, damaging the copier.
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Cautions on laser

Wave length	770 nm - 795 nm
Pulse times	11.82 µs / 7 mm
Output power	0.17 mW ± 0.01 mW

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MAIN FEATURES

① High-speed laser copying

- Since warm-up time is zero, copying can be started immediately after the power switch is turned on.
- First-copy time is only 9.6 seconds (normal mode).
- Copying speed is 12 copies/min. (AR-121E) or 15 copies/min. (AR-151E), which adapts to business use, allowing improvement of working efficiency.

② High-quality digital image

- High-quality image copying at 600 dpi can be performed.
- In addition to the automatic exposure mode, the manual exposure can be adjusted in five steps.
- The photo mode copying function allows clear copying of delicate halftone original images such as monochrome photos and colour photos.

③ Substantial copying functions

- Zoom copying from 50% to 200% in 1% increments can be performed.
- Continuous copying of maximum 99 sheets can also be performed.
- Toner save mode reduces toner consumption by approximately 10%.
- User programs allow setting/modification of functions for customer's needs.

④ Scan once/ Print many (AR-151E only)

- The AR-151E is equipped with a 1-page memory buffer. This memory allows the AR-151E to scan an original 1 time only and make up to 99 copies. This feature allows for improved workflow, reduced operating noise from the copier and reduced wear and tear on the scanning mechanism. This feature provides for a higher reliability.

⑤ Printer feature

- This copier can be used as a laser printer by installing an optional printer expansion kit.

Note

Some models and options may not be available in some countries.

⑥ Environmentally friendly design

- Paper output tray is housed in the copier for space saving.
- Preheat and auto power shut-off modes are provided to reduce power consumption in standby mode.

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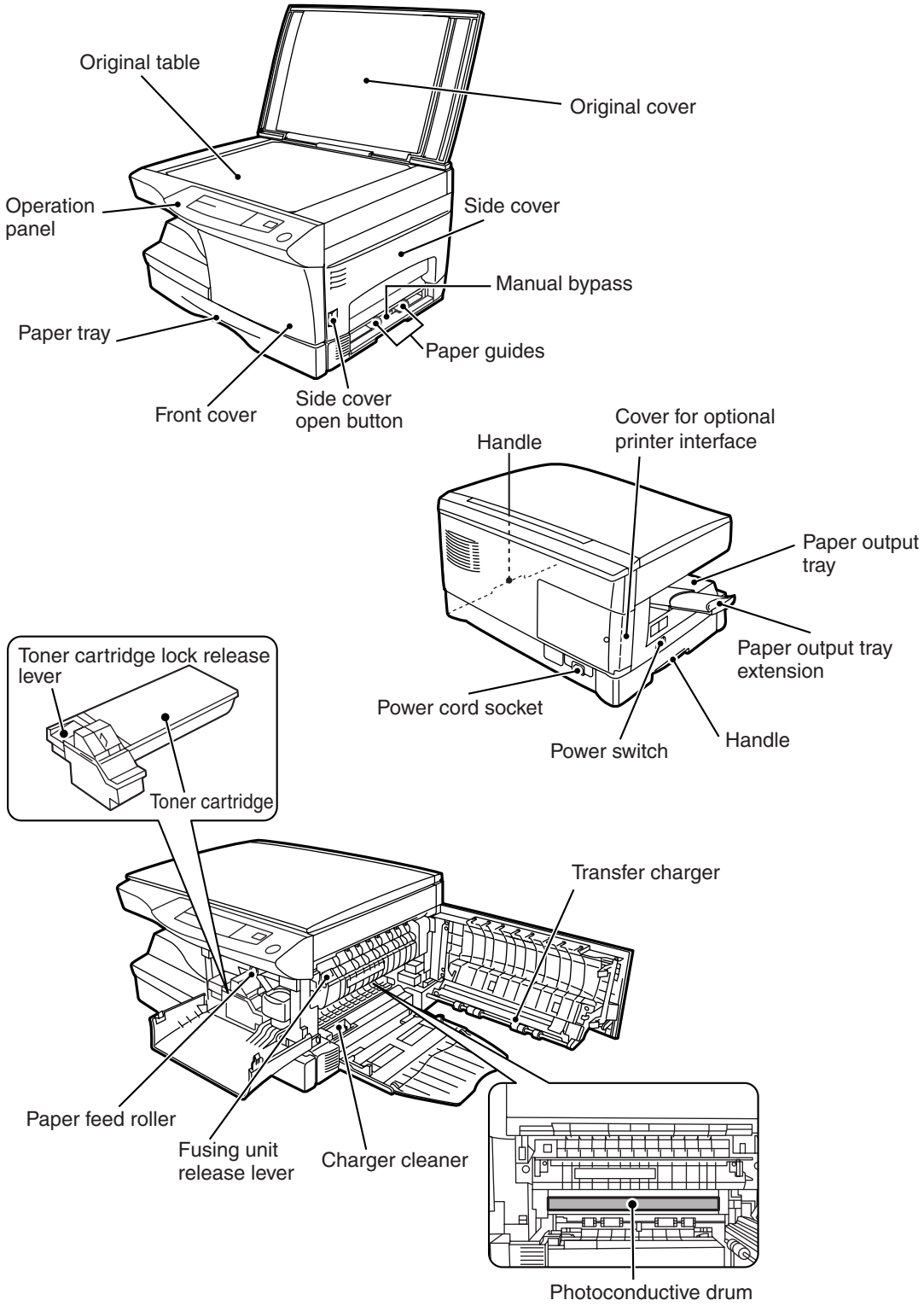
PART NAMES



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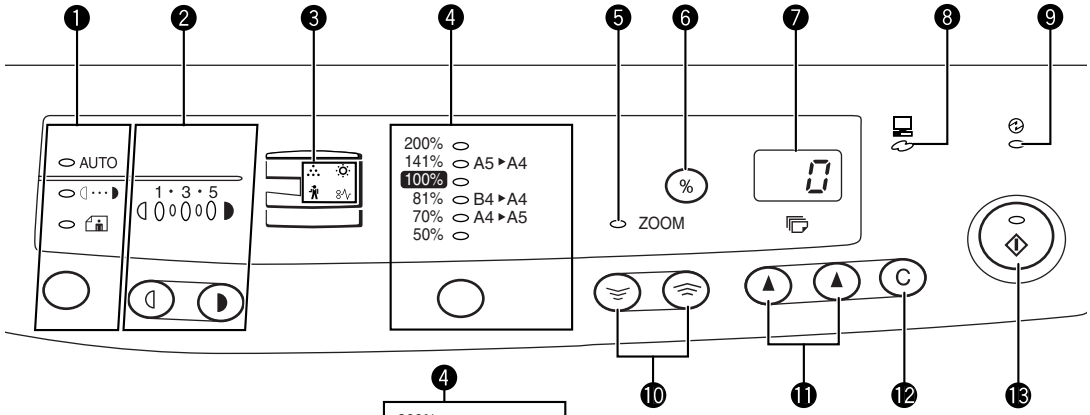
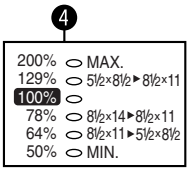
OPERATION PANEL



Inch system



❶ **Exposure mode selector key and indicators**
Use to sequentially select the exposure modes: AUTO, MANUAL or PHOTO. Selected mode is shown by a lit indicator. (p. 13)

❷ **Light and dark keys and exposure indicators**
Use to adjust the MANUAL or PHOTO exposure level. Selected exposure level is shown by a lit indicator. (p.13)
Use to start and terminate user program setting. (p. 18)

❸ **Alarm indicators**
- : Developer replacement required indicator (p. 28)
- : Misfeed indicator (p. 25)
- : Toner cartridge replacement required indicator (p. 20)
- : Maintenance indicator (p. 28)

❹ **Copy ratio selector key and copy ratio indicators**
Use to sequentially select preset reduction/ enlargement copy ratios.
Selected copy ratio is shown by a lit indicator. (p. 14)

❺ **Zoom indicator** (p. 14)

❻ **Copy ratio display (%) key** (p. 14)

❼ **Display**
Displays the specified copy quantity, zoom copy ratio, user program code, and error code.

❽ **ON LINE indicator**
Lights up when the machine is used as a printer. To use the copier as a printer, an optional printer expansion kit is needed.

❾ **Power save indicator**
Lights up when the copier is in a power save mode. (p. 17)

❿ **Zoom keys**
Use to select any reduction or enlargement copy ratio from 50 to 200% in 1% increments. (p. 14)

⓫ **Copy quantity keys**
- Use to select the desired copy quantity (1 to 99). (p. 12)
- Use to make user program entries. (p. 18)

⓬ **Clear key**
- Press to clear the display, or press during a copy run to terminate copying. (p. 12)
- Press and hold down during standby to display the total number of copies made to date. (p. 19)

⓭ **Print key and ready indicator**
- Copying is possible when the indicator is on.
- Use to set a user program.

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2 INSTALLATION

Follow the installation procedure below to use the copier properly.

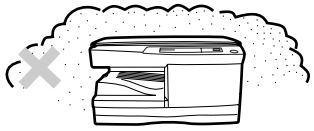
COPIER INSTALLATION

Improper installation may damage the copier. Please note the following during initial installation and whenever the copier is moved.

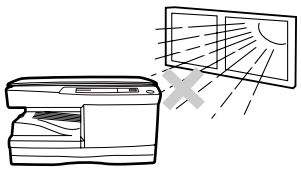
> Caution
>
> If the copier is moved from a cool place to a warm place, condensation may form inside the copier. Operation in this condition will cause poor copy quality and malfunctions. Leave the copier at room temperature for at least 2 hours before use.

Do not install your copier in areas that are:

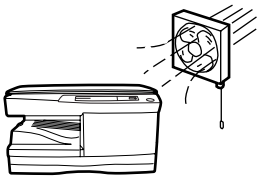
- damp, humid, or very dusty



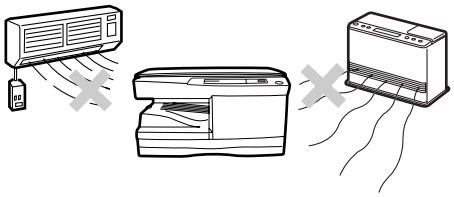
- exposed to direct sunlight



- poorly ventilated



- subject to extreme temperature or humidity changes, e.g., near an air conditioner or heater.



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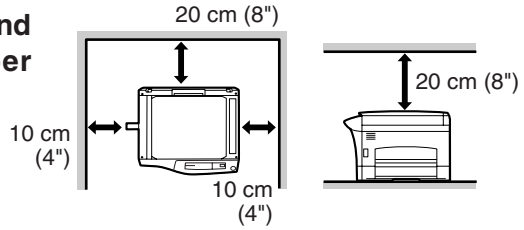
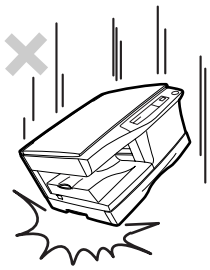
Be sure to allow the required space around the machine for servicing and proper ventilation.



CAUTIONS ON HANDLING

Be careful in handling the copier as follows to maintain the performance of this copier.

Do not drop the copier, subject it to shock or strike it against any object.



Store spare toner cartridges in a cool dry place without removing from the package before use.
If they are exposed to direct sunlight or excessive heat, poor copies may result.

Do not touch the photoconductive drum (green portion).
Scratches or smudges on the drum will cause dirty copies.

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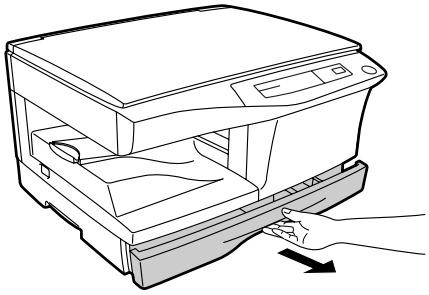
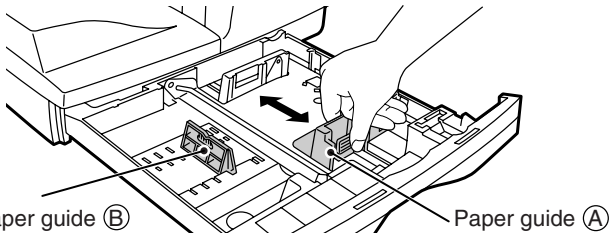
LOADING COPY PAPER

1 Raise the handle of the paper tray and pull the paper tray out until it stops.



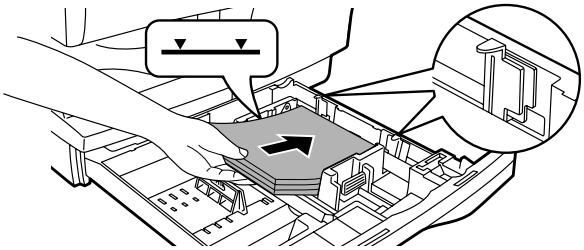
2 Adjust the paper guides on the paper tray to the copy paper width and length.
Squeeze the lever of paper guide Ⓐ and slide the guide to match with the width of the paper.
Move paper guide Ⓑ to the appropriate slot as marked on the tray.



3 Fan the copy paper and insert it into the tray. Make sure the edges go under the corner hooks.

Note

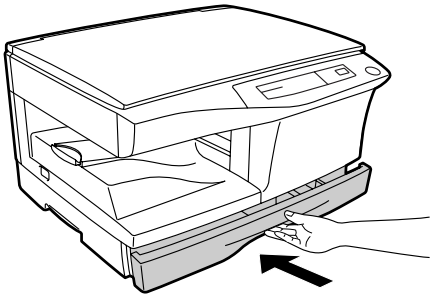
Do not load paper above the maximum height line (▼ ▼). Exceeding the line will cause a paper misfeed.



4 Gently push the paper tray back into the copier.

Note

After loading copy paper, to cancel the blinking “P” without restarting copying, press the clear (Ⓒ) key. The “P” in the display will go out and the ready ( ) indicator will light up.



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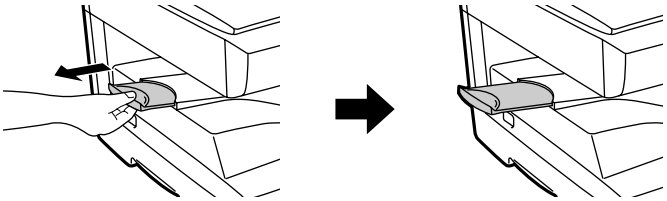
3 MAKING COPIES

This chapter describes basic copying functions and some other copying functions using the manual bypass.

NORMAL COPYING

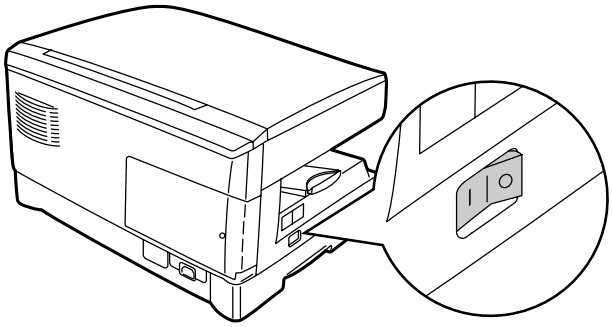
1 Ensure that paper of the desired size is set in the paper tray. See page 10, **LOADING COPY PAPER**. When copying onto paper larger than A4 (8-1/2" x 11") size, pull out the paper output tray extension.



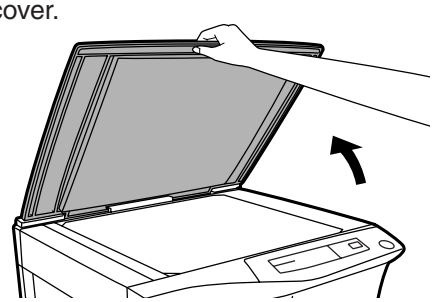
2 Turn the power switch on.
The ready ( ) indicator will light up.

Note

- The copier will enter a power save mode once the set time has elapsed without any copier operation after the last copy of a run is made or power is turned on.
  The settings of the power save modes can be modified. See page 18, **USER PROGRAMS**.
- The copier will return to the initial settings a preset amount of time after the last copy is made. The preset amount of time (auto clear time) can be changed. See page 18, **USER PROGRAMS**.



3 Open the original cover.



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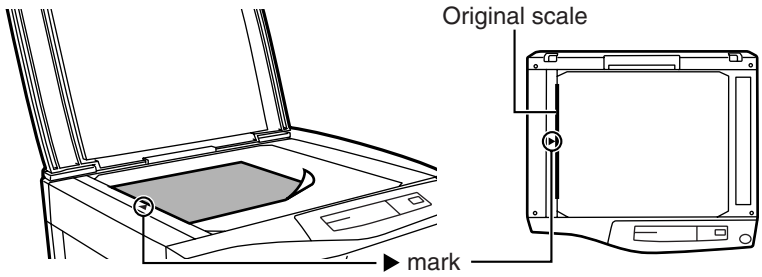
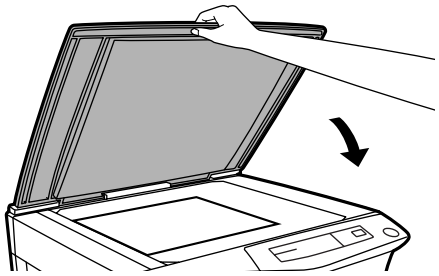
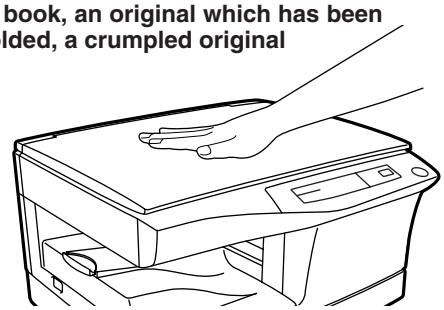
4 Place the original face down on the original table. Align it with the original scale and the centring (▶) mark.



5 Gently close the original cover. When copying a book or an original which has been folded or a crumpled original, press down the original cover lightly. If the original cover is not securely closed, the copies may be striped or blurred.

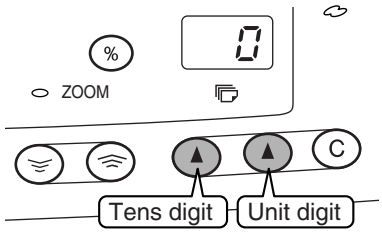


A book, an original which has been folded, a crumpled original



6 Set the number of copies using the two copy quantity (▲, ▲) keys.

Note
- Press the clear (C) key to clear an entry if a mistake is made.
- A single copy can be made with the initial setting, i.e., when "0" is displayed.



- Press the right copy quantity key to set the unit digit from 0 to 9. This key will not change the tens digit.
- Press the left copy quantity key to set the tens digit from 1 to 9.

7 Press the print (◇) key.

Note
- To display the number of copies made in a continuous run, press the left copy quantity key.
- To stop copying in the middle of a run, press the clear (C) key. Copying will stop and the number in the display will be reset to "0".

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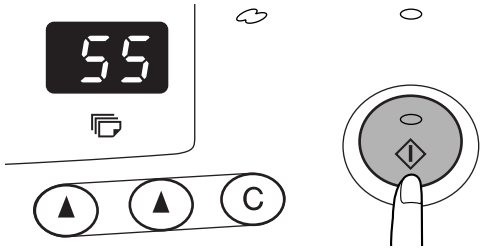
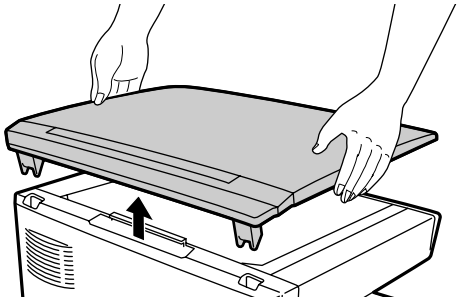


Setting a large original

The original cover can be removed to allow copying of bulky objects.

1 Simply lift the original cover straight up.



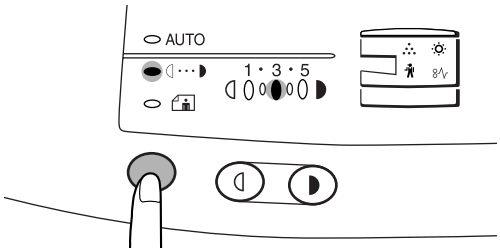
2 To reattach the original cover, reverse the above procedure.

EXPOSURE ADJUSTMENT/PHOTO COPYING

Copy density adjustment is not required for most originals in the automatic exposure mode. To adjust the copy density manually or to copy photographs, the exposure level can be adjusted in five steps manually.

1 Set the original and check the copy paper size.

2 Press the exposure mode selector key to select the manual (◐···◑) mode or photo (🖻) mode.



3 Use the light (◐) and dark (◑) keys to adjust the exposure level.
If exposure level 2 is selected, the two left-handmost indicators for that level will light up simultaneously. Also, if level 4 is selected, the two right-handmost indicators for that level will light up simultaneously.

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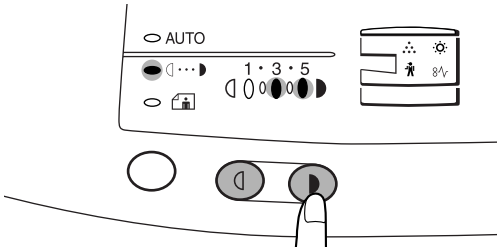


4 Set the number of copies using the copy quantity (▲, ▲) keys and press the print (◇) key.

REDUCTION/ENLARGEMENT/ZOOM

Three preset reduction ratios and two enlargement ratios can be selected. The zoom function enables copy ratio selection from 50% to 200% in 1% increments.

1 Set the original and check the copy paper size.

2 Use the copy ratio selector key and/or zoom (,) keys to select the desired copy ratio.

Note

- To verify a zoom setting without changing the zoom ratio, press and hold down the copy ratio display (%) key. When the key is released, the display will return to the copy quantity display.
- To reset the ratio to 100%, press the copy ratio selector key repeatedly until the 100% indicator lights up.

To select a preset copy ratio:

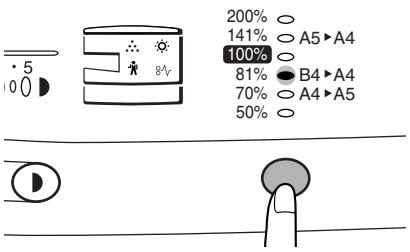
Preset reduction and enlargement ratios are: 50%, 70%, 81%, 141%, and 200% (50%, 64%, 78%, 129%, and 200%)

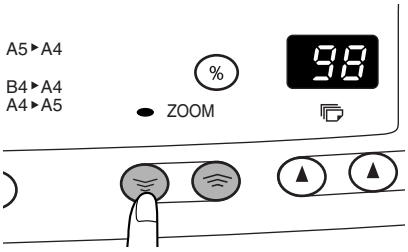
To select a zoom ratio:

When a zoom (or) key is pressed, the ZOOM indicator will light up and the zoom ratio will be displayed in the display.

Note

To decrease or increase the zoom ratio rapidly, press and hold down the or key. However, the value will stop at the preset reduction or enlargement ratios. To move beyond these ratios, release the key and then press and hold it down again.





3 Set the number of copies using the copy quantity (▲, ▲) keys and press the print (◇) key.

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BYPASS FEED (including special paper)

The single-sheet manual bypass can be used to feed standard paper, transparency film, labels, and other special purpose papers measuring from A6 to A4 (3-1/2" x 5-1/2" to 8-1/2" x 14") and in the weight range of 52 to 130 g/m² (14 to 34.5 lbs.). (For paper weighing from 104 to 130 g/m² (28 to 34.5 lbs.), A4 (8-1/2" x 11") is the maximum size.)

1 Place the original face down on the original table. Align it with the original scale and close the original cover.

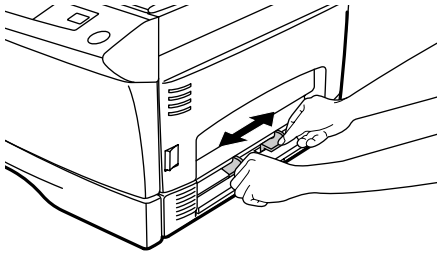
Note

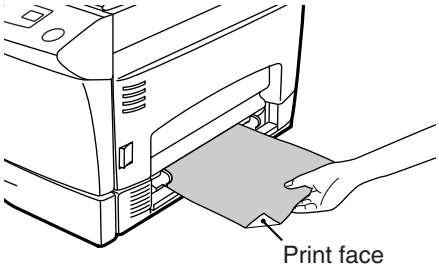
The original image must be smaller than the paper or media for copying.
If the original image is bigger than the paper or media, this may cause smudges on the edges of the copies.

2 Set the paper guides to the copy paper width. Insert a single sheet of copy paper (print face down) into the feed slot of the manual bypass.
Copying will begin automatically.

Note

- Paper must be fed narrow side into the feed slot.
- When copying onto transparency film, remove each copy promptly. Do not let copies stack up.

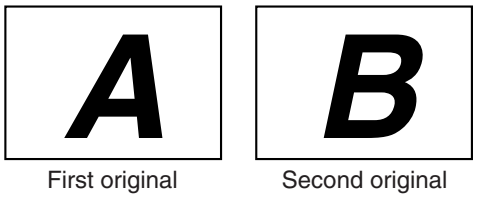


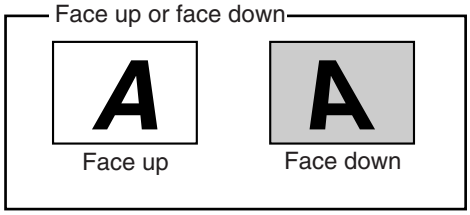


TWO-SIDED COPYING

Two-sided copying can be made on this copier using the manual bypass.

Example: The following two originals will be copied onto two sides of copy paper.





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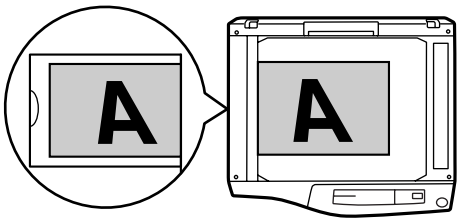
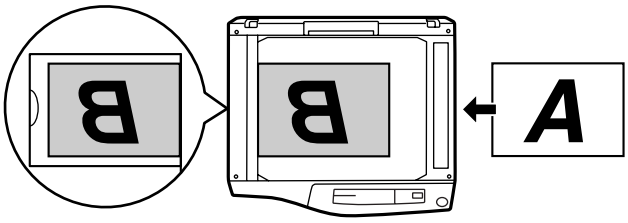
TWO-SIDED COPYING

1 Place the first original on the original table and make a copy.
The first copy can be made using either the paper tray or the manual bypass.



2 Replace the first original with the second original on the original table and close the original cover. Make sure that the first and second originals are oriented in the same way on the original table.

3 For tablet binding, turn the first copy over left to right as shown below. For booklet binding, turn the first copy over top to bottom (not shown). Feed the first copy into the manual bypass.
Copying will begin automatically.



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4 SPECIAL FUNCTIONS

This chapter describes the special functions of this copier. Use these functions as needed.

DESCRIPTION OF SPECIAL FUNCTIONS

High image quality mode
This mode improves copy image quality by increasing copy density with a slight increase of toner consumption.

Power save modes (page 18)
The copier has two power save modes of operation: preheat mode and auto power shut-off mode.

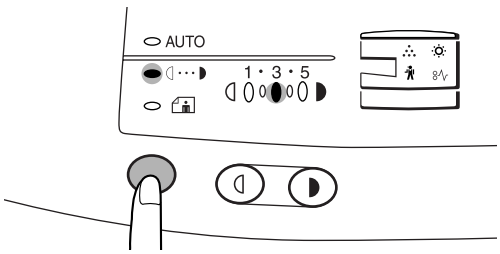
- **Preheat mode**
  When the copier enters the preheat mode, the power save ( ) indicator will light up and other indicators will remain on or off as before. In this condition, the fuser in the copier is maintained at a lower heat level, thereby saving power. To copy from the preheat mode, make desired copier selections and press the print ( ) key using the normal copying procedure.

- **Auto power shut-off mode**
  When the copier enters the auto power shut-off mode, the power save ( ) indicator will light up and other indicators will go out. The auto power shut-off mode saves more power than the preheat mode but requires a longer time before starting copying. To copy from the auto power shut-off mode, press the print ( ) key. Then make desired copier selections and press the print ( ) key using the normal copying procedure.

Auto clear (page 18)
The copier returns to the initial settings a preset amount of time after the last copy is made. This preset amount of time (auto clear time) can be changed.

HIGH IMAGE QUALITY MODE

1 Press the exposure mode selector key to select the manual ( ) mode.



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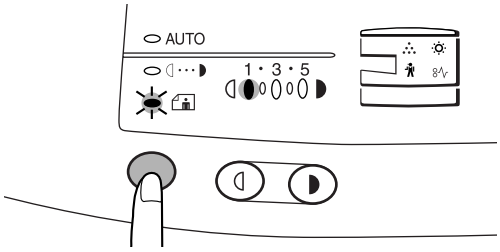
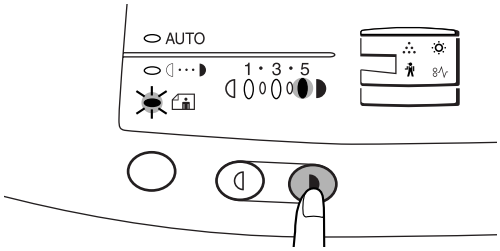
2 Press and hold down the exposure mode selector key for approximately 5 seconds. The manual (◑···◗) indicator will go out and the photo (🖻) indicator will begin to blink. The exposure indicator marked "1" will light up, indicating the standard toner mode is active.



3 To enter the high image quality mode, press the dark (◗) key.
The exposure indicator marked "5" will light up, indicating the high image quality mode is selected.



4 Press the exposure mode selector key twice. The photo (🖻) indicator will stop blinking and the AUTO indicator will light up steadily. The high image quality mode is now active.

Note

To return to the standard mode, repeat the procedure but use the light (◑) key to select exposure level "1" in step 3.

4 Special functions

USER PROGRAMS (power save modes, auto clear time)

The user programs allow the parameters of certain functions to be set, changed, or cancelled as desired.

Setting the power save modes and auto clear time

1 Press and hold down the light (◑) and dark (◗) keys simultaneously for more than 5 seconds until all the alarm indicators (☼ , ⚠, ∴ and 🧍) blink and "– –" appears in the display.

2 Use the left copy quantity (▲) key to select a user program number (1: auto clear time, 2: preheat mode, 3: auto power shut-off timer, 5: auto power shut-off mode). The selected number will blink in the left side of the display.

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3 Press the print (◇) key. The entered program number will be steadily lit and the currently selected parameter number for the program will blink on the right side of the display.

4 Select the desired parameter using the right copy quantity (▲) key. The entered parameter number will blink on the right of the display.

Program No.	Mode	Parameters
1	Auto clear time	0 ⇨ OFF 1 ⇨ 30 sec. * 2 ⇨ 60 sec. 3 ⇨ 90 sec. 4 ⇨ 120 sec. 5 ⇨ 10 sec.
2	Preheat mode	0 ⇨ 30 sec. 1 ⇨ 60 sec. * 2 ⇨ 90 sec.
3	Auto power shut-off timer	0 ⇨ 2 min. * 1 ⇨ 5 min. 2 ⇨ 15 min. 3 ⇨ 30 min. 4 ⇨ 60 min. 5 ⇨ 120 min.
5	Auto power shut-off mode	0 ⇨ OFF * 1 ⇨ ON

Factory default settings are indicated with an asterisk (*).

5 Press the print (◇) key. The right-hand number in the display will be steadily lit and the entered value will be stored.

Note

To change the setting or to set another mode, press the clear (C) key. The copier will return to step 2.

6 Press the light (◐) or dark (◑) key to return to the normal copy mode.

DISPLAYING TOTAL NUMBER OF COPIES

Use the following procedure to display the total number of copies.

1 Press the clear (C) key to reset the display to zero.

2 Press and hold down the clear (C) key for approximately 5 seconds. The total number of copies will appear in two steps, each with three digits.
Example: Total number of copies is 1,234.

001 ⇨ 234

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5 SUPPLIES AND USER MAINTENANCE

This chapter describes how to replace the toner cartridge.

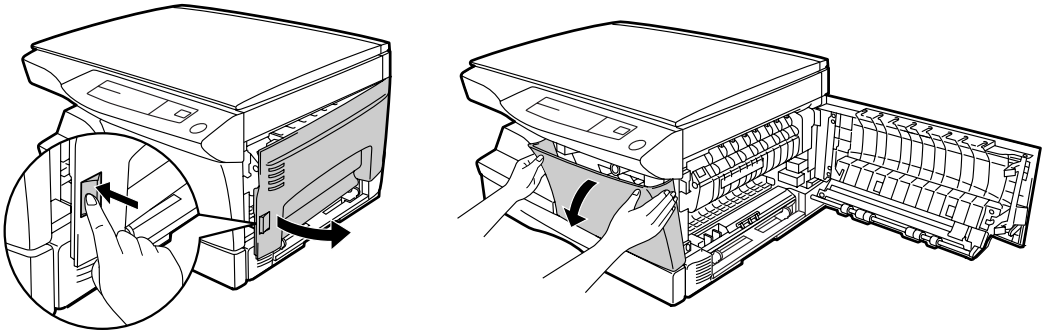
Caution — Be sure to use only genuine SHARP parts and supplies.

TONER CARTRIDGE REPLACEMENT

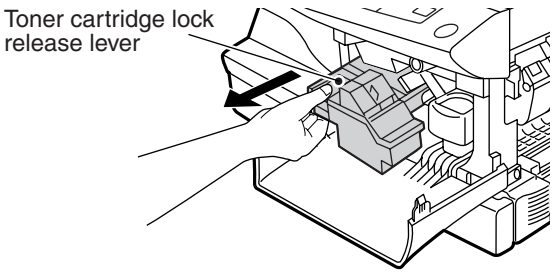
When the toner cartridge replacement required ( ) indicator lights up, replacement of the toner cartridge will be needed soon. Obtain a new cartridge. When the toner cartridge replacement required ( ) indicator blinks, the toner cartridge must be replaced before copying can be resumed. Replace the toner cartridge by following the procedure below.

Note — During a long copy run of a dark original, the ready ( ) indicator may blink, the indicator light up, and the copier stop, even though toner is left. The copier will feed toner up to 2 minutes and then the ready ( ) indicator will light up. Press the print ( ) key to restart copying.

1 Open the side cover while pressing the side cover open button. Then, push gently on both sides of the front cover and open it.



2 Push the toner cartridge lock release lever and pull the toner cartridge out. Dispose of the old toner cartridge in accordance with local regulations.



Note — After removing the toner cartridge, do not shake it or tap on it. Doing so may cause toner to leak from the cartridge. Put the old cartridge immediately in the bag contained in the box of the new cartridge.

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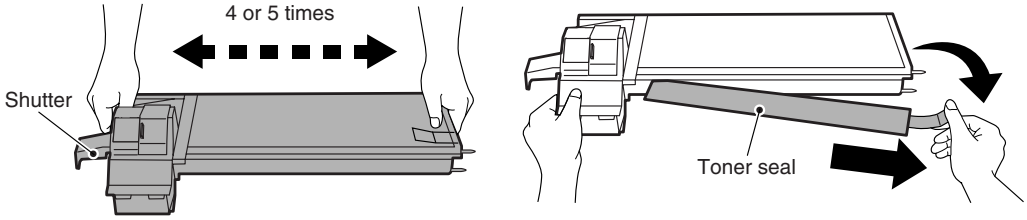
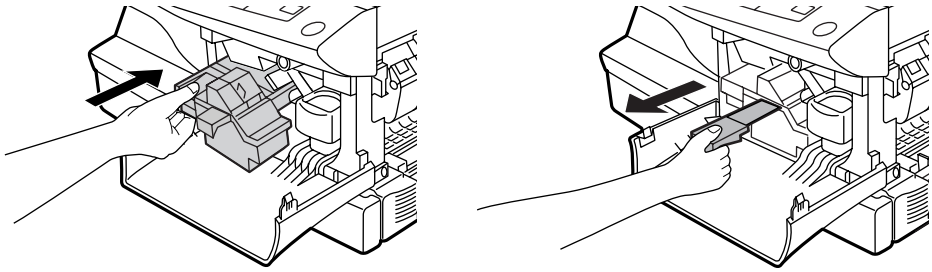
3 Remove the toner cartridge from the bag. Grasp the cartridge on both sides and shake it horizontally four or five times. After shaking the cartridge, remove the toner seal.

Note

Grasp the toner cartridge as shown in the illustration. Do not hold the cartridge by the shutter. Be sure to only shake the cartridge before the toner seal is removed.



4 Gently insert the toner cartridge along the guides until it locks in place while pushing the lock release lever. Remove the tape from the shutter. Pull the shutter out of the toner cartridge as shown in the illustration. Discard the shutter.



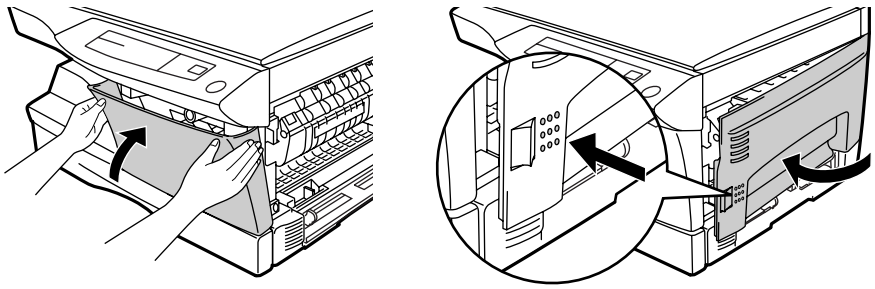
5 Close the front cover and then the side cover by pressing the round projections near the side cover open button. The ∴ indicator will go out and the ready (⏻) indicator will light up.

Caution

When closing the covers, be sure to close the front cover securely and then close the side cover. If the covers are closed in the wrong order, the covers may be damaged.

Note

Even after a new toner cartridge is installed, the ready (⏻) indicator may not light up, indicating copying cannot be restarted (toner is not sufficiently fed). In this case, open and close the side cover. The copier will feed toner again approximately 2 minutes and then copying can be restarted.



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Toner cartridge life

To find out the approximate quantity of toner remaining, follow the procedure below.

1 Press and hold down the light (◁) and dark (▷) keys simultaneously for more than 5 seconds until all the alarm indicators (☼ , ⚠ , ⁂ and 🧍) blink and "– –" appears in the display.

2 Press and hold down the copy ratio display (%) key for more than 5 seconds.
- The approximate quantity of toner remaining will be indicated in the display as a percentage. ("100", "75", "50", "25", or "10" is displayed.) When the percentage is less than 10%, LO will be displayed.

3 Press the light (◁) or dark (▷) key.
- All the alarm indicators will go out.

USER MAINTENANCE

Proper care is essential in order to get clean, sharp copies. Be sure to take a few minutes to regularly clean the copier.

Warning Before cleaning, be sure to turn the power switch off and remove the power cord from the outlet.

Caution Do not use thinner, benzene or other volatile cleaning agents. Doing so may cause deformation, discolouration, deterioration or malfunction.

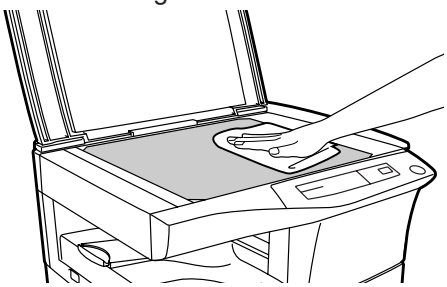
Cabinet

Wipe the cabinet with a soft, clean cloth.

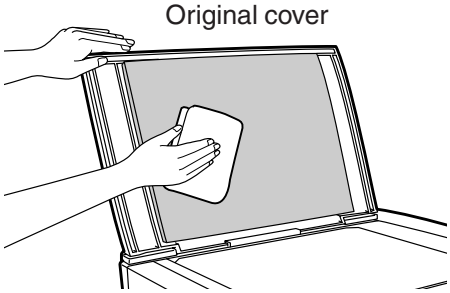
Original table and original cover

Stains on the glass or cover will also be copied. Wipe the glass and the cover with a soft, clean cloth. If necessary, dampen the cloth with a glass cleaner.

Original table



Original cover



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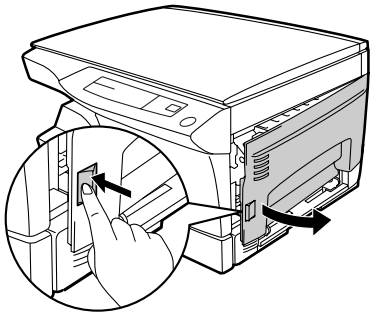
Transfer charger

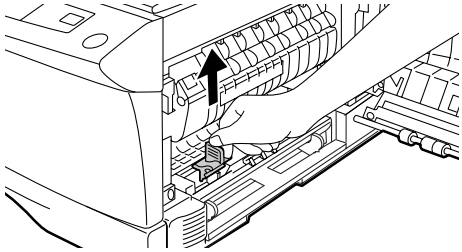
If copies start becoming streaky or blotchy, the transfer charger may be dirty. Clean the charger using the following procedure.

1 Turn the power switch off.

2 Open the side cover while pressing the side cover open button.

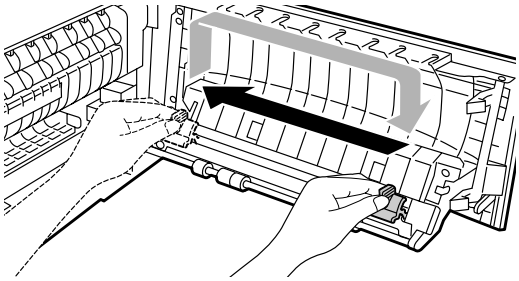


3 Take the charger cleaner out by holding the tab.



4 Set the charger cleaner onto the right end of the transfer charger, gently slide the cleaner to the left end, and then remove it. Repeat this operation two or three times.

> Caution
>
> Slide the charger cleaner from the right end to the left end along the groove of the transfer charger. If the cleaner is stopped on the way, smudges on copies may occur.



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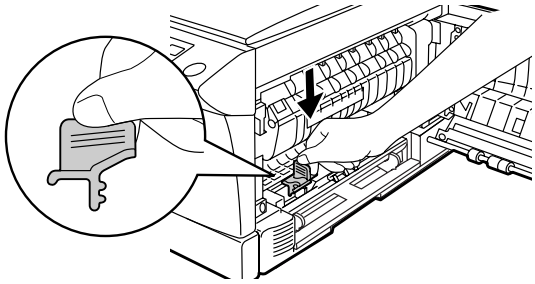
5 Return the charger cleaner to its original position. Close the side cover by pressing the round projections near the side cover open button.

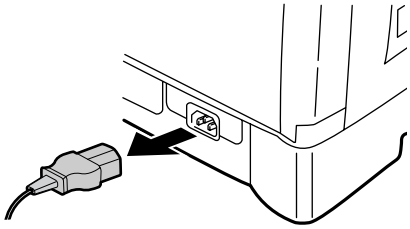


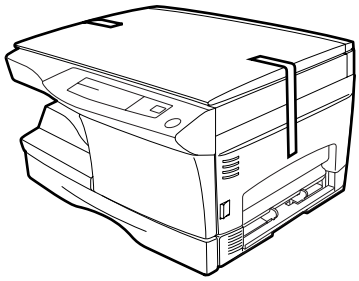
6 Turn the power switch on.

When copier is not in use

To prevent entry of dust and foreign matter, store the copier as follows.

1 Remove the power cord and secure the copier using tape (two locations).





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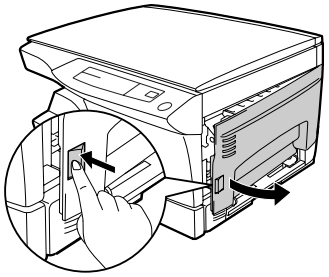
6 COPIER TROUBLE?

This chapter describes misfeed removal and troubleshooting.

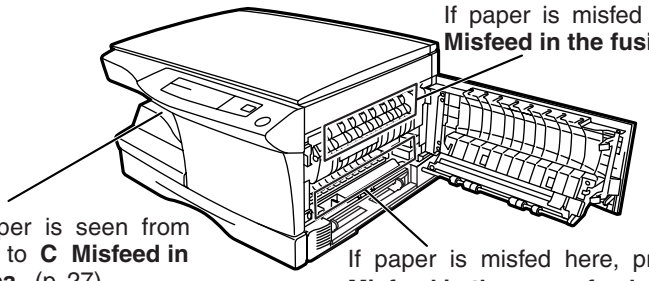
MISFEED REMOVAL

When the misfeed (⚠) indicator blinks or P blinks in the display, the copier will stop because of a misfeed.

1 Open the side cover while pressing the side cover open button.



2 Check the misfeed location. Remove the misfed paper following the instructions for each location in the illustration below.
If P blinks in the display, proceed to "**A Misfeed in the paper feed area**". (p. 25)


If paper is misfed here, proceed to **B Misfeed in the fusing area** . (p. 26)
If the misfed paper is seen from this side, proceed to **C Misfeed in the transport area** . (p. 27)
If paper is misfed here, proceed to **A Misfeed in the paper feed area** . (p. 25)

A Misfeed in the paper feed area

1 Gently remove the misfed paper from the paper feed area as shown in the illustration. When P blinks in the display and the misfed paper is not seen from the paper feed area, pull out the paper tray and remove the misfed paper. If the paper cannot be removed, proceed to "**B Misfeed in the fusing area**".

> Warning
> The fusing unit is hot. Do not touch the fusing unit when removing misfed paper. Doing so may cause a burn or other injury.

> Caution
> - Do not touch the photoconductive drum (green portion) when removing the misfed paper. Doing so may damage the drum and cause smudges on copies.
> - If the paper has been fed through the manual bypass, do not remove the misfed paper through the manual bypass. Toner on the paper may stain the paper transport area, resulting in smudges on copies.

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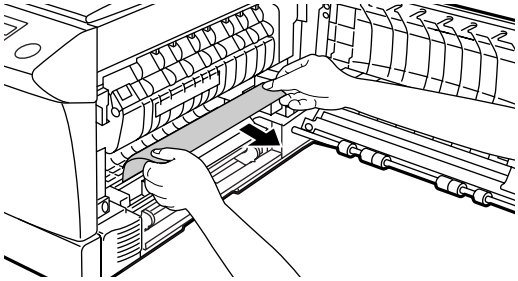


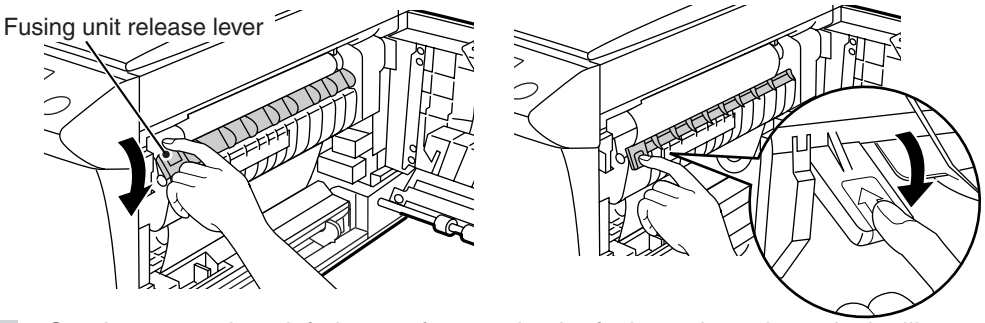
2 Close the side cover by pressing the round projections near the side cover open button. The misfeed (⚠) indicator will go out and the ready (⏻) indicator will light up.

B Misfeed in the fusing area

1 Lower the fusing unit release lever by rotating it all the way as shown in the illustration.

Note

While you are lowering the fusing unit release lever, it will not move smoothly at a location on the way. However, be sure to lower the lever by rotating it all the way to the location where it will not rotate as shown in the right illustration.



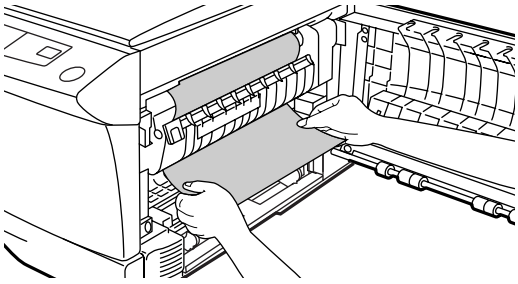
2 Gently remove the misfed paper from under the fusing unit as shown in the illustration. If the paper cannot be removed, proceed to "**C Misfeed in the transport area**".

Warning

The fusing unit is hot. Do not touch the fusing unit when removing misfed paper. Doing so may cause a burn or other injury.

Caution

- Do not touch the photoconductive drum (green portion) when removing the misfed paper. Doing so may damage the drum and cause smudges on copies.
- Do not remove the misfed paper from above the fusing unit. Unfixed toner on the paper may stain the paper transport area, resulting in smudges on copies.



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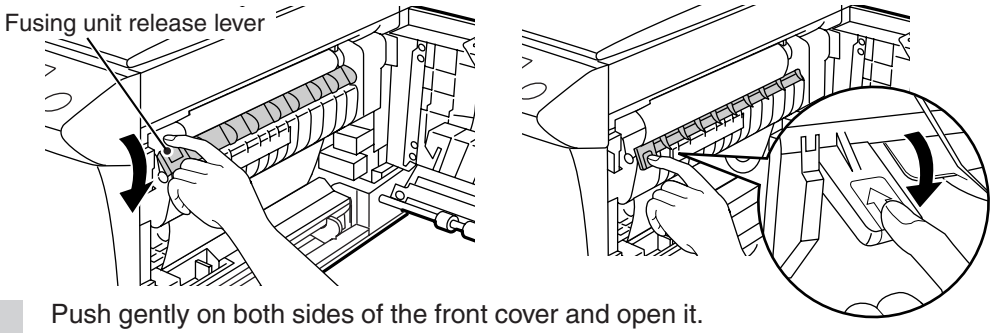
3 Raise the fusing unit release lever and then close the side cover by pressing the round projections near the side cover open button. The misfeed (⚠) indicator will go out and the ready (⏻) indicator will light up.

C Misfeed in the transport area

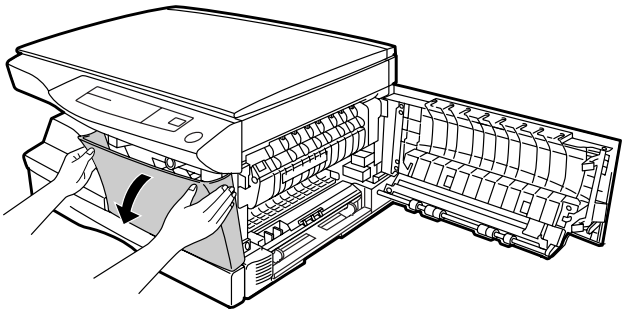
1 Lower the fusing unit release lever by rotating it all the way as shown in the illustration.

Note

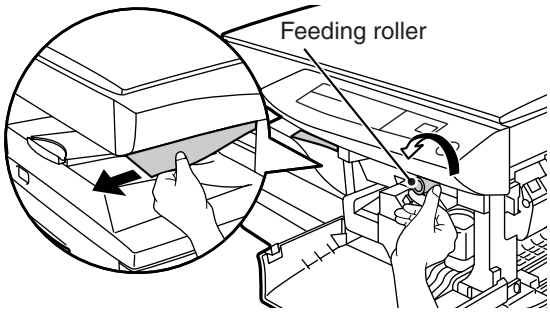
While you are lowering the fusing unit release lever, it will not move smoothly at a location on the way. However, be sure to lower the lever by rotating it all the way to the location where it will not rotate as shown in the right illustration.



2 Push gently on both sides of the front cover and open it.



3 Rotate the feeding roller in the direction of the arrow and gently remove the misfed paper from the exit area.



4 Raise the fusing unit release lever, close the front cover and then close the side cover by pressing the round projections near the side cover open button. The misfeed (⚠) indicator will go out and the ready (⏻) indicator will light up.

Caution

When closing the covers, be sure to close the front cover securely and then close the side cover. If the covers are closed in the wrong order, the covers may be damaged.

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DEVELOPER REQUIRED

When the ☼ indicator lights up, the developer should be replaced.
DEVELOPER REPLACEMENT SHOULD ONLY BE DONE BY AN AUTHORISED SHARP SERVICE TECHNICIAN. Contact your service centre as soon as possible.

MAINTENANCE REQUIRED

When 🧍 indicator lights up, service by an authorised SHARP service technician is required. Contact your service centre as soon as possible.

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TROUBLESHOOTING

If any problem occurs, check the list below before contacting your SHARP service centre.

Problem	Possible cause	Solution	See page:
Copier does not operate.	Copier plugged in?	Plug the copier into a grounded outlet.	–
	Power switch on?	Turn the power switch on.	11
	Side cover closed securely?	Gently close the side cover.	–
	Front cover closed?	Gently close the front cover and then close the side cover.	–
Blank copies	Is the original placed face down on the original table?	Place the original face down on the original table.	12
Power save ( ) indicator on.	Is the copier in the preheat mode?	Press any key to cancel the preheat mode.	17
	Is the copier in the auto power shut-off mode?	Press the print ( ) key to cancel the auto power shut-off mode.	17
Copies are too dark or too light.	Is original image too dark or too light?	Adjust the exposure manually.	13
	Is the copier in the automatic exposure mode?	Adjust the automatic exposure level.	31
	Is the copier in the photo exposure mode?	Cancel the photo exposure mode.	13
Dust, dirt, smudges appear on copies.	Original table or original cover dirty?	Clean regularly.	22
	Original smudged or blotchy?	Use a clean original.	–
Striped copies	Is transfer charger clean?	Clean the transfer charger.	23
Paper misfeeds frequently.	Non-standard paper used?	Use standard paper. If using special papers, feed the paper through the manual bypass.	33
	Paper curled or damp?	Store copy paper flat in the wrapper in a dry location.	–
	Pieces of paper inside copier?	Remove all pieces of misfed paper.	25
	Paper guides in the paper tray not set properly?	Set the guides properly depending on the paper size.	10
	Too much paper in the paper tray?	Remove excessive paper from the paper tray.	10
Images rub off the copy easily.	Is the copy paper too heavy?	Use copy paper within the specified range.	33
	Paper damp?	Replace with dry copy paper. If the copier is not used for a long time, remove the paper from the paper tray and store it in its wrapper in a dry location.	33

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STATUS INDICATORS

When the following indicators light up or blink on the operation panel or the following alphanumeric codes appear in the display, solve the problem immediately referring to both the table below and the relevant page.

Caution

Be sure to use only genuine SHARP parts and supplies.

Indication			Cause and remedy	See page:
	Developer replacement required indicator	Steadily lit	Developer is required. Contact your SHARP service centre as soon as possible.	28
	Toner cartridge replacement required indicator	Steadily lit	Replacement of toner cartridge will be needed soon. Obtain a new cartridge.	20
		Blinking	Toner cartridge must be replaced. Replace it with a new one.	20
	Misfeed indicator	Blinking	A misfeed has occurred. Remove the misfed paper referring to the description of "Misfeed removal."	25
	Maintenance indicator	Steadily lit	Service by an authorised SHARP service technician is required.	28
CH	"CH" is blinking in the display.		A toner cartridge is not installed. Install a toner cartridge. If "CH" is blinking even if a cartridge is installed properly, contact your SHARP service centre immediately.	20
	"CH" is steadily lit in the display.		Side cover is open. Close the side cover securely by pressing the round projections near the side cover open button.	–
P	"P" is blinking in the display.		Paper tray is empty. Load copy paper.	10
			A misfeed has occurred in the paper tray. Remove the misfed paper.	25
			Paper tray is not securely installed. Push the tray in securely.	–
L / 3	A letter and a number appear alternately.		The copier will not function. Turn the power switch off, remove the power cord from the outlet, and contact your SHARP service centre.	–

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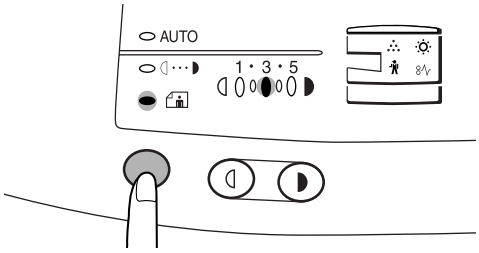
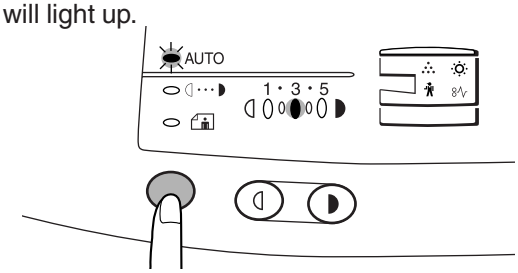
AUTOMATIC EXPOSURE ADJUSTMENT

The automatic exposure level can be adjusted to suit your copying needs.

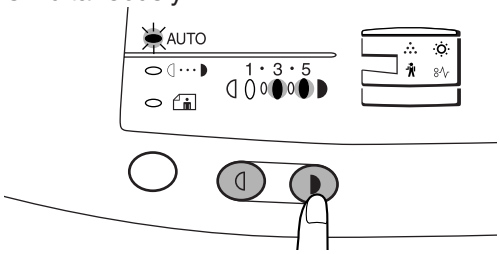
1 Press the exposure mode selector key to select the photo (🖼) mode.



2 Press and hold down the exposure mode selector key for approximately 5 seconds. The photo (🖼) indicator will go out and the AUTO indicator will begin to blink. One or two exposure indicators corresponding to the automatic exposure level which has been selected will light up.



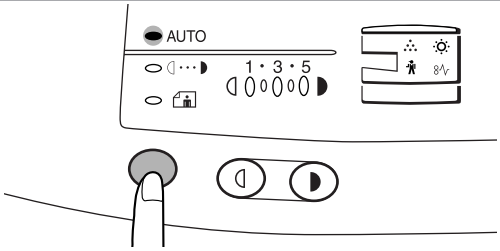
3 Press the light (◐) or dark (◑) key to lighten or darken the automatic exposure level as desired.
If exposure level 2 is selected, the two left-handmost indicators for that level will light up simultaneously. Also, if level 4 is selected, the two right-handmost indicators for that level will light up simultaneously.



4 Press the exposure selector key. The AUTO indicator will stop blinking and light up steadily.

Note

This automatic exposure level will remain in effect until you change it again by this procedure.



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7 APPENDIX

SPECIFICATIONS

Type	Digital copying machine, desk-top type
Copy system	Dry, electrostatic transfer
Originals	Sheets, bound documents
Original size	Max. B4 (257 mm x 364 mm) (10" x 14")
Copy sizes	A6 to A4 (105 mm x 148.5 mm to 210 mm x 297 mm) (3-1/2" x 5-1/2" to 8-1/2" x 14") (Feed copy paper lengthwise only.) Image loss: Max. 4 mm (5/32") (leading and trailing edges) Max. 3 mm (1/8") (either of the other edges)
Copy speed	AR-121E: 12 copies/min. AR-151E: 15 copies/min.
Continuous copying	Max. 99 copies; subtractive counter
First-copy time (Approx.)	9.6 s (normal copying mode)
Copy ratio	Variable: 50% to 200% in 1% increments (total 151 steps) Fixed: 50%, 70%, 81%, 100%, 141%, 200% (50%, 64%, 78%, 100%, 129%, 200%)
Exposure system	Moving optical source, slit exposure (stationary platen) with automatic exposure
Copy paper feed	One paper tray with automatic feed (250 sheets); one single-sheet manual bypass
Fusing system	Heat rollers
Development system	Magnetic brush development
Light source	Xenon lamp
Resolution	Scan: 400 dpi Output: 600 dpi
Memory	AR-121E: N/A AR-151E: 6MB
Power supply	240V +6%, -10% in 240V power supply regions or local voltage ±10% in other regions (For this copier's power supply requirements, see the name plate located on the back of the unit.)
Power consumption	Max. 1,000 W
Overall dimensions	607 mm (W) x 445 mm (D) (23.9" (W) x 17.5" (D))
Weight	Approx. 18 kg (39.7 lbs.), toner cartridge included
Copier dimensions	518 mm (W) x 445 mm (D) x 293 mm (H) (20.4" (W) x 17.5" (D) x 11.5" (H))
Operating conditions	Temperature: 10°C to 30°C (50°F to 86°F) Humidity: 20% to 85%
Noise level	Sound Power Level L_{WA} Copying: 66 [dB (A)], Standby: Background noise level Sound Pressure Level L_{PA} (bystander positions) Copying: 40 [dB (A)], Standby: Background noise level Noise emission measurement in accordance with ISO 7779.

First-copy time may differ depending on operating conditions, such as power-supply voltage and room temperature.

Note

- As a part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.
- Some models and options may not be available in some countries.

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SUPPLIES

Types and sizes of copy paper

For best results, use only paper recommended by SHARP.

Type of paper feeding	Type of media		Size	Weight
Paper tray	Standard paper		A4 (210 mm x 297 mm) B5 (182 mm x 257 mm) A5 (148.5 mm x 210 mm) Letter (8-1/2" x 11") Legal (8-1/2" x 14") Invoice (5-1/2" x 8-1/2")	56 to 80 g/m² (15 lbs. to 21 lbs.)
Manual bypass	Standard paper and thick paper		A4 (210 mm x 297 mm) B5 (182 mm x 257 mm) A5 (148.5 mm x 210 mm) A6 (105 mm x 148.5 mm) Letter (8-1/2" x 11") Legal (8-1/2" x 14") Invoice (5-1/2" x 8-1/2")	52 to 130 g/m² (14 lbs. to 34.5 lbs.)**
	Special media	Transparency film	A4 (210 mm x 297 mm) Letter (8-1/2" x 11")	
		Envelope*	International DL (110 mm x 220 mm) International C5 (162 mm x 229 mm) Commercial 10 (4-1/8" x 9-1/2") Monarch (3-7/8" x 7-1/2")	

* Do not use envelopes that have metal clasps, plastic snappers, string closures, windows, linings, self-adhesive, patches or synthetic materials. These will cause physical damage to the copier.

** For paper weighing from 104 to 130 g/m² (28 to 34.5 lbs.), A4 (8-1/2" x 11") is the maximum size that can be fed through the manual bypass.

Caution

Be sure to use only genuine SHARP parts and supplies.

SHARP GENUINE SUPPLIES

For best copying results, be sure to use only SHARP products.
The package of SHARP toner has the Genuine Supplies label.

Proper storage

1. Store the supplies in a location that is:
   - clean and dry,
   - at a stable temperature,
   - not exposed to direct sunlight.
2. Store copy paper in the wrapper and lying flat.
   - Paper stored out of the wrapper or in packages standing on end may curl or get damp, resulting in paper misfeeds.

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MEMO

In some areas, the “POWER” switch positions are marked “I” and “O” on the copier instead of “ON” and “OFF”.
The symbol “O” denotes the copier is not completely de-energized but in a stand-by condition at this “POWER” switch position.
If your copier is so marked, please read “I” for “ON” and “O” for “OFF”.

Caution!
For a complete electrical disconnection, pull out the main plug.
The socket-outlet shall be installed near the equipment and shall be easily accessible.

This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.

Dieses Gerät entspricht den Anforderungen der EG-Richtlinien 89/336/EWG und 73/23/EWG mit Änderung 93/68/EWG.

Ce matériel répond aux exigences contenues dans les directives 89/336/CEE et 73/23/CEE modifiées par la directive 93/68/CEE.

Dit apparaat voldoet aan de eisen van de richtlijnen 89/336/EEG en 73/23/EEG, gewijzigd door 93/68/EEG.

Dette udstyr overholder kravene i direktiv nr. 89/336/EEC og 73/23/EEC med tillæg nr. 93/68/EEC.

Quest’ apparecchio è conforme ai requisiti delle direttive 89/336/EEC e 73/23/EEC, come emendata dalla direttiva 93/68/EEC.

Η εγκατάσταση αυτή ανταποκρίνεται στις απαιτήσεις των οδηγιών της Ευρωπαϊκής Ενωσης 89/336/ΕΟΚ και 73/23/ΕΟΚ, όπως οι κανονισμοί αυτοί συμπληρώθηκαν από την οδηγία 93/68/ΕΟΚ.

Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.

Este aparato satisface las exigencias de las Directivas 89/336/CEE y 73/23/CEE, modificadas por medio de la 93/68/CEE.

Denna utrustning uppfyller kraven enligt riktlinjerna 89/336/EEC och 73/23/EEC så som kompletteras av 93/68/EEC.

Dette produktet oppfyller betingelsene i direktivene 89/336/EEC og 73/23/EEC i endringen 93/68/EEC.

Tämä laite täyttää direktiivien 89/336/EEC ja 73/23/EEC vaatimukset, joita on muutettu direktiivillä 93/68/EEC.

The CE mark logo label is affixed on an equipment in case that the directives described in the above sentence are applicable to the product. (This sentence is not applicable in any country where the above directives are not required.)

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